

(72) Cielo, Robert P., US

(73) Cielo, Robert J., US

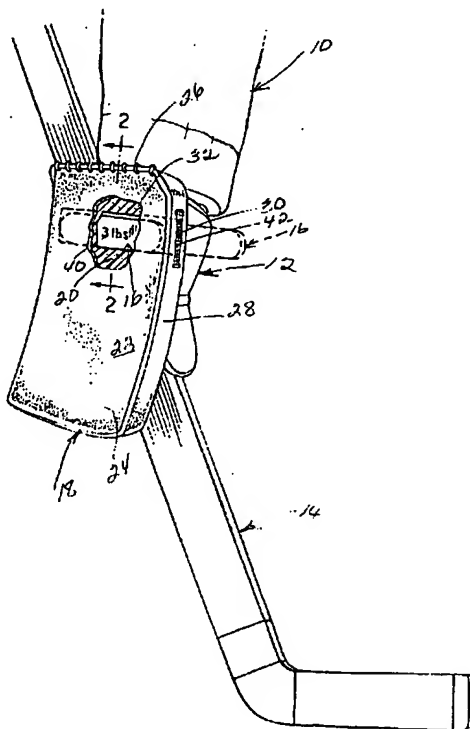
(73) Cielo, Edith, US

(51) Int.Cl.⁶ A41D 13/10, A63B 71/14

(30) 1994/09/13 (08,305,444) US

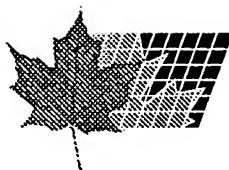
(54) **GANTS DE HOCKEY AVEC POIDS AMOVIBLES POUR
L'ENTRAÎNEMENT DES JOUEURS**

(54) **HOCKEY PLAYERS TRAINING GLOVES WITH REMOVABLE
WEIGHTS**



(57) La présente invention vise des gants pour joueurs de hockey, comportant un plomb amovible inséré dans un logement aménagé dans le coussinet du gant conçu pour retenir ou bloquer une rondelle de hockey se déplaçant à une vitesse relativement élevée. Ces gants peuvent être utilisés comme aides au réchauffement, à utiliser juste avant une partie, ou comme aides à l'entraînement, à utiliser pendant les séances prévues entre les matchs. La partie du coussinet de protection à l'intérieur du gant, qui

(57) A hockey players gloves with removable weights in which the weights are insertable and removable from a pocket associated with a pad formed in the gloves in which a portion of the pad is positioned between the inserted weight and the surface of the pad adapted to engage or block a hockey puck that may be traveling at a relatively high rate of speed. The gloves may be used both as a warm up aid for use just prior to a game or as a training aid during various practice periods. Padding in



(11) (21) (C) **2,141,150**
(22) 1995/01/26
(43) 1996/03/14
(45) 1998/06/16

fait face au lanceur, empêche tout contact de la rondelle avec le plomb, ce qui fait que la surface de blocage du gant conserve ses caractéristiques normales et permet le même mouvement et le même effet de retour de la rondelle que dans le cas d'un gant traditionnel. Le logement du plomb est muni d'une fermeture et le plomb est de préférence en métal recouvert d'un matériau résilient, comme du caoutchouc ou un autre matériau similaire.

the hockey players gloves which faces the shooter prevents contact of the hockey puck with the weight with the surface of the puck blocking pad facing the shooter retaining its normal characteristics so that movement of the puck and rebound of the puck will be same as occurs with original equipment. The pocket receiving the weight is provided with a closure and the weight is preferably metal and provided with a coating of resilient material, such as rubber or the like.

2141150

ABSTRACT OF THE DISCLOSURE

A hockey players gloves with removable weights in which the weights are insertable and removable from a pocket associated with a pad formed in the gloves in which a portion of the pad is positioned between the inserted weight and the surface of the pad adapted to engage or block a hockey puck that may be traveling at a relatively high rate of speed. The gloves may be used both as a warm up aid for use just prior to a game or as a training aid during various practice periods. Padding in the hockey players gloves which faces the shooter prevents contact of the hockey puck with the weight with the surface of the puck blocking pad facing the shooter retaining its normal characteristics so that movement of the puck and rebound of the puck will be same as occurs with original equipment. The pocket receiving the weight is provided with a closure and the weight is preferably metal and provided with a coating of resilient material, such as rubber or the like.

2141150

HOCKEY PLAYERS TRAINING GLOVES WITH REMOVABLE WEIGHTS

BACKGROUND OF THE INVENTION

FIELD OF THE INVENTION

The present invention generally relates to gloves with removable weights for use as training aids for individuals engaged in activities requiring hand dexterity and quick hand movement. More specifically, the present invention relates to hockey players gloves with removable weights in which the weights are insertable and removable from a pocket associated with a pad formed in the gloves in which a portion of the pad is positioned between the inserted weight and the surface of the pad adapted to engage or block a hockey puck that may be traveling at a relatively high rate of speed. The gloves may be used both as a warm up aid for use

just prior to a game or as a training aid during various practice periods. Padding in the hockey players gloves between the weight and the surface which faces the shooter prevents any contact of the hockey puck with the weight with the surface of the puck blocking pad facing the shooter retaining its normal characteristics so that control of movement of the puck and rebound characteristics of the puck will be same as occurs with conventional gloves. The pocket receiving the weight is provided with a closure and the weight is preferably metal and provided with a coating of resilient material, such as rubber or the like.

DESCRIPTION OF THE PRIOR ART

The concept of utilizing an attached weight as a training aid or exercising device is well known. Baseball players frequently use doughnut shaped weights on the bat for training and warm up purposes with the weight being removed prior to the batter entering the batter's box. Ankle and wrist attached weights are also well known for use as training aids and exercising devices when walking, jogging and the like. The prior art also includes gloves having weights incorporated therein for use when jogging or exercising and a removable weight for a baseball glove or bowler's glove for use as a training aid for baseball players or bowlers. The following U.S. patents disclose and relate to the above mentioned prior art.

4,034,979

4,247,097

- 3 -

4,330,120

4,371,983

4,395,190

10 The prior art does not disclose the structure of the above invention in which removable weights are associated with the padding in gloves worn by hockey players in which at least a portion of the padding is oriented between the weight and the surface of the padding which faces the direction from which the puck is approaching to prevent contact between the puck and weight and prevent modification of the rebound characteristics imparted to the puck by the blocking pad. The prior art does not disclose the particular structure of the weight and does not disclose the particular structure and orientation of the pocket which removably receives and retains the weight.

SUMMARY OF THE INVENTION

20 In accordance with an embodiment of the present invention there is provided in combination with a hockey player's glove having a pad provided with an outer surface facing a hockey puck shooter, an inner surface spaced from the outer surface, a peripheral side edge interconnecting the outer and inner surfaces, an elongated rigid training weight, the pad filling the space between the outer and inner surfaces, the pad including a transversely extending pocket spaced inwardly from the outer surface and outwardly from the inner surface, the spacing of the weight from the outer surface maintaining rebound characteristics of a hockey puck engaging the pad, the peripheral side edge having a longitudinal opening aligned with
30 the pocket whereby the pocket in the pad is accessible from a portion of a periphery of the pad spaced from the surfaces for removably receiving the weight, the opening including a closure removably retaining the weight in the pocket, the pocket and weight extending substantially the entire distance between

- 4 -

opposed side edges of the pad, the weight increasing resistance to movement of the glove during normal glove movements when practising or warming up for playing hockey to enable a hockey player to increase hand and glove speed, increase agility of a hand having a glove mounted thereon and strengthen and increase stamina of the muscles controlling movement of a hand on which the glove is mounted.

10 In a preferred embodiment, in the hockey goaltender's stick grasping glove, the pad is generally rectangular with the pocket and weight being adjacent the end of the pad near the end of the wrist area of the hockey goaltender.

In accordance with a further preferred feature of the present invention, the glove is a hockey goaltender's puck catching glove, the pad is generally rectangular with the pocket and weight being substantially equally spaced from the ends of the pad.

20 These together with other features and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereto, wherein like numerals refer to like parts throughout.

BRIEF DESCRIPTION OF THE DRAWINGS

30 Figure 1 is a perspective view of a goaltender's hockey stick glove with portions broken away illustrating the blocking pad, the pocket for an insertable weight and the association of the weight with the pad;

Figure 2 is a sectional view taken along section line 2-2 on Figure 1 illustrating the positioning of the pocket and

- 5 -

the weight in spaced relation to the surfaces of the pad on the stick glove;

Figure 3 is a plan view of the weight with portions broken away illustrating the rubber coating thereon; and

10 Figure 4 is a perspective view of a hockey goaltender's catching glove illustrating the association of the weight in relation to the pad.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring specifically to Figures 1-3, a hockey player's arm is generally designated by reference numeral 10 with the arm depicted being a goaltender's arm having a glove 12 mounted on the

20

30

hand of the goaltender in a conventional manner with the glove 12 being the stick glove by which the goaltender grasps and manipulates a conventional goaltenders hockey stick 14. The goaltenders stick glove 12 is of conventional construction with the exception of modifications being made to accommodate a removable weight generally designated by numeral 16.

The glove 12 includes a blocking pad 18 mounted on the glove in opposite relation to the palm of the glove in which the hockey stick 14 is grasped to serve as a blocking pad for blocking movement of a hockey puck in its trajectory toward a hockey goal in a manner well known in this art. The blocking pad 18 includes a pad 20 of cushioning or resilient material of rubber, foam rubber, foam plastic or the like which has a cover 22 forming a skin for the pad or padding 20. As illustrated, the pad 18 is generally rectangular in configuration and the blocking surface 24 which faces the shooter of the puck is slightly concavely curved in a conventional manner which enables some control of the rebound path of a puck that is blocked by the blocking pad 18. The cover 22 may be secured in place by lacing 26 or any other suitable stitching, bonding or the like with the aforementioned structure of the glove and pad being completely conventional.

One side edge 28 of the pad 18 is provided with an access opening 30 to a shallow pocket 32 formed in the pad or padding 20 with the pocket 32 extending transversely over a major portion of the width of the pad or padding 20 with the pocket 32 being spaced downwardly from the top edge of the pad or padding a relatively

short distance. Also, the front and rear surfaces of the pocket 32 are spaced from the front and rear surfaces of the pad 20 as illustrated in Figure 2.

The shape and size of the pocket 32 is generally similar to the dimensional characteristics of the weight 16 which includes an elongated rigid weight member of metal or similar heavy material that has a rectangular transverse cross-sectional configuration with the rigid member being designated by reference numeral 34 and being provided with rounded ends 36 and dimensioned to be inserted through and removed from the pocket 32 through access opening 30. The rigid weight member 34 is provided with a coating of rubber, plastic or the like 38 and provided with indicia 40 to indicate the weight characteristics of the insertable weight 16. It is pointed out that various weight characteristics of weight members can be utilized, such as 1 lb., 2 lb. and 3 lb. weights for progressive use during training or for selective use during training depending upon the desires and requirements of the individual players.

A closure structure is provided for the access opening 30 which, as illustrated in Figure 1 is a slid type closure such as a zipper 42. Other types of fasteners may be used including "VELCRO", snaps, buttons and the like in order to retain but enable insertion and removal of the weight 16.

Figure 4 illustrates an embodiment of the present invention in association with a goaltenders catching glove 50 which is also conventional and provided with the usual pad 52. In this embodiment of the invention, the pad 52 is provided with a pocket

54 receiving a weight 16 through an entrance opening 56 provided with a closure such as a slide type closure 58. The association of the weight 16, pocket 54 and pad 52 in this embodiment of the invention are the same as disclosed in detail in Figures 1 and 2 with the blocking glove 12. The same structure of the pad, pocket, insertable weight and closure can also be incorporated into the gloves worn by other hockey players for use as a training aid with the pocket for the weight always being spaced from the surface of the pad facing the hockey puck shooter with the pad or padding between the weight and the puck engaging surface of the pad to enable the pad to function in its usual manner with the weight enabling the player using the weighted glove or gloves to develop greater hand speed, enhance agility and dexterity and increase strength and stamina.

The concepts of the present invention are disclosed as being incorporated into pre-existing hockey equipment to provide use as both a warm up and training aid. The insertable and removable weight may be incorporated into newly constructed hockey player gloves and in other glove structures where padding is used with the weight being positioned with padding between the weight and a surface to be engaged by a puck or projectile. As illustrated, each of the two goaltenders gloves are provided with a one to three pound flat weight depending upon the size of the glove and the individual using the invention with the weight being oriented in spaced relation to the surface of the blocking pad which faces the shooter. As illustrated, padding remains on both

sides of the weight which is provided with a wrapping or coating of rubber or similar material to avoid chipping, cracking and the like. Inasmuch as the pocket or stitched compartment which holds the weight is closed by a zipper or "VELCRO" located on the outside edges of the glove, the weight itself can be removed after warm ups preceding a game and then reinserted before practice. This structure provides substantial advantages compared to weights that may be attached to the outside of gloves with straps or buckles with the built in construction making it impossible for contact of the weight with the puck which could result in loss of puck control or strange rebounds.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and, accordingly, all suitable modifications and equivalents may be resorted to, falling within the scope of the invention.

THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:

1. In combination with a hockey player's glove having a pad provided with an outer surface facing a hockey puck shooter, an inner surface spaced from said outer surface, a peripheral side edge interconnecting said outer and inner surfaces, an elongated rigid training weight, said pad filling the space between the outer and inner surfaces, said pad including a transversely extending pocket spaced inwardly from the outer surface and outwardly from the inner surface, said spacing of the weight from the outer surface maintaining rebound characteristics of a hockey puck engaging said pad, said peripheral side edge having a longitudinal opening aligned with the pocket whereby the pocket in the pad is accessible from a portion of a periphery of said pad spaced from said surfaces for removably receiving said weight, said opening including a closure removably retaining said weight in the pocket, said pocket and weight extending substantially the entire distance between opposed side edges of the pad, said weight increasing resistance to movement of the glove during normal glove movements when practising or warming up for playing hockey to enable a hockey player to increase hand and glove speed, increase agility of a hand having a glove mounted thereon and strengthen and increase stamina of the muscles controlling movement of a hand on which the glove is mounted.

2 . The combination as defined in claim 1, wherein said glove is a hockey goaltender's stick grasping glove, said pad being generally rectangular with the pocket and weight being adjacent the end of the pad nearest a wrist area of the hockey goaltender.

3. The combination as defined in claim 1, wherein said glove is a hockey goaltender's puck catching glove, said pad being generally rectangular with the pocket and weight being substantially equally spaced from the ends of the pad.

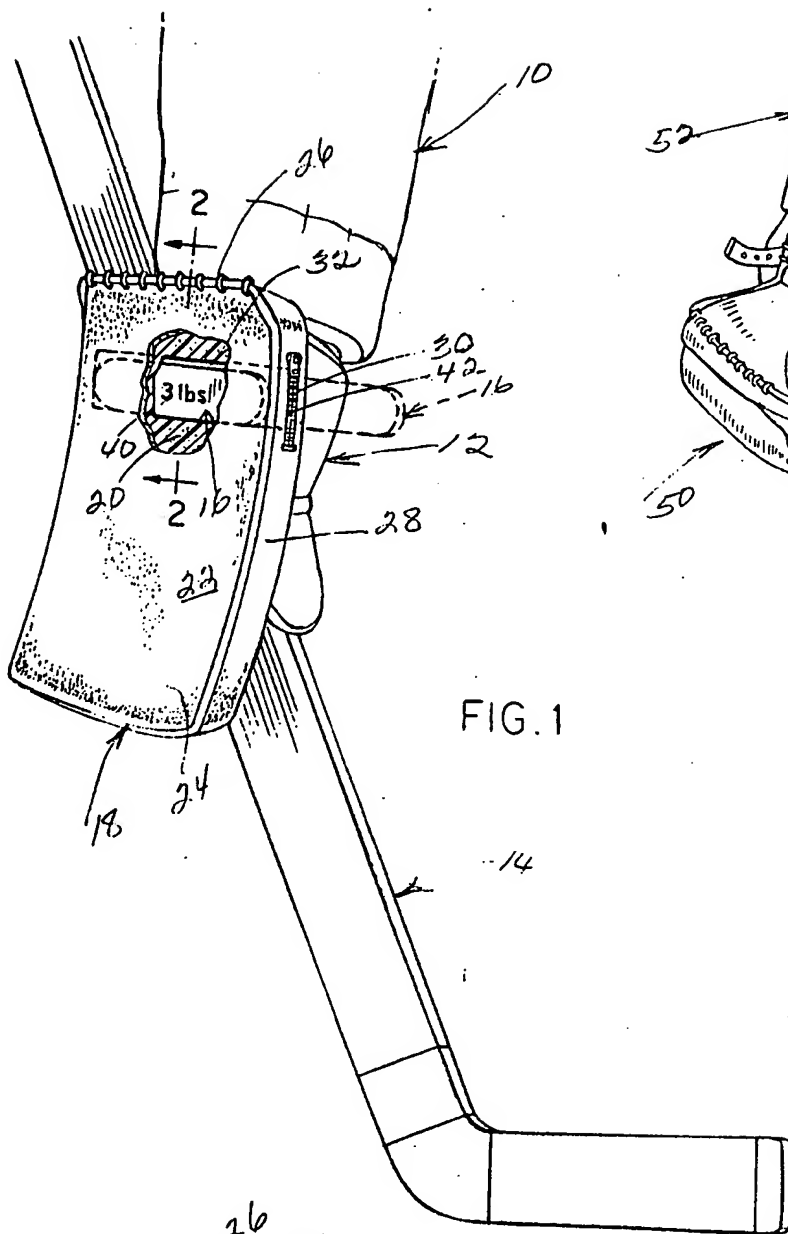


FIG. 1

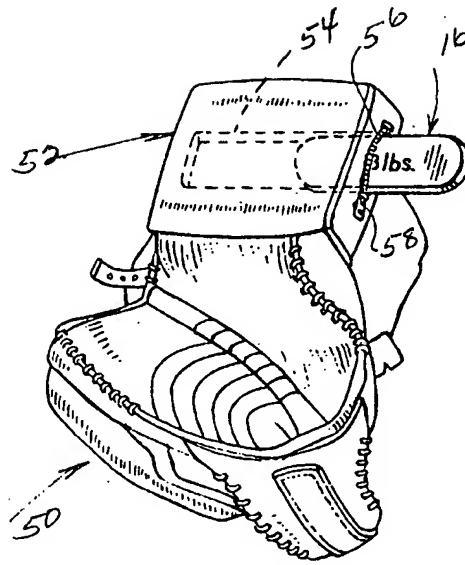


FIG. 4

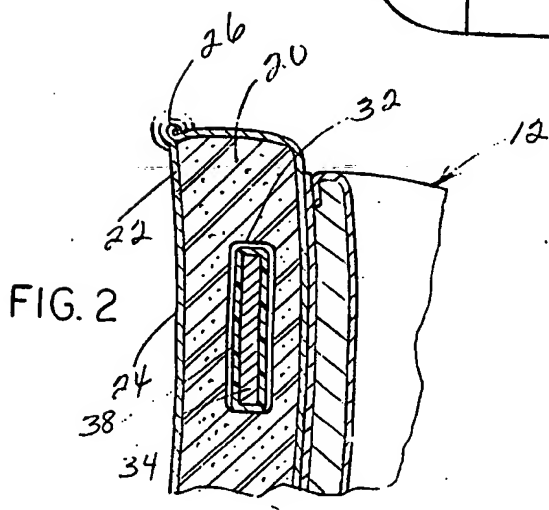


FIG. 2

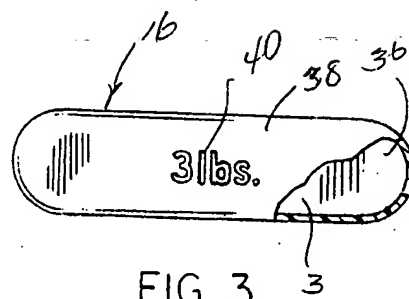


FIG. 3

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☒ FADED TEXT OR DRAWING
- ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.